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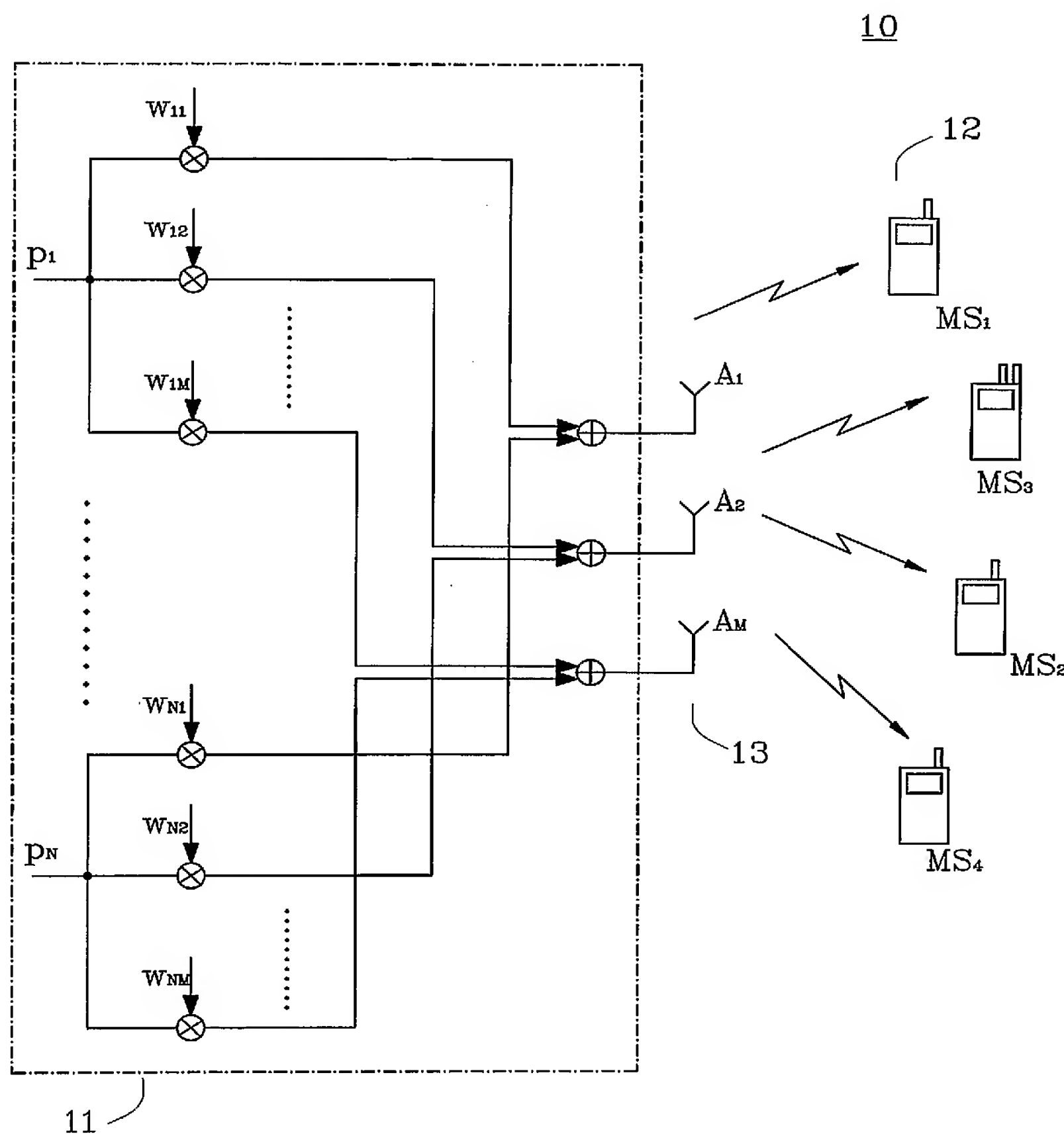
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(54) Title: A METHOD FOR DETERMINING TRANSMIT WEIGHTS



(57) Abstract: The present invention relates to beamforming in a multi-carrier multi-user communication system applying an adaptive method for determining transmit weights for the various antenna beams. A set of complex transmission weights is adapted in response to appropriate feedback information on transmission quality from receiving units in order to achieve a maximisation of a function of said quality indicator and thus optimise the transmission of the pilot signal.

**Declarations under Rule 4.17:**

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